

BAYANDINA, D.G.; MANEVICH, M.Ye.; MEDUNETSKAYA, E.B.

Development of a method for yomesan treatment of hymenolepiasis.  
Med.paraz.i paraz.bol. 33 no.4:411-415 Jl-Ag '64.

(MIRA 18:3)

1. Otdel gel'mintologii Instituta meditsinskoy parazitologii i  
tropicheskoy meditsiny imeni Martsinovskogo i parazitologicheskiy  
otdel sanitarno-epidemiologicheskoy stantsii Zhdanovskogo rayona,  
Moskva.

BAYANDINA, D.6.

Study of the effect of a series of anthelmintics on the different stages of Hymenolepis nana in white mice. Med. paraz. i paraz. bol. 34 no. 5:556-562 S-0 '65 (MIRA 19:1)

1. Laboratoriya biologii gel'mintov i spetsificheskogo deystviya preparatov otdela meditsinskoy gel'mintologii Instituta meditsinskoy parazitologii i tropicheskoy meditsiny imeni Martsinovskogo Ministerstva zdravookhraneniya SSSR, Moskva. Submitted March 1, 1965.

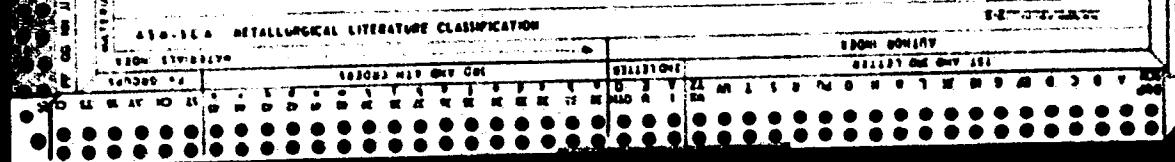
BAYANDINA, F. I.

BAYANDINA, F. I.: "Investigation of the processes of electrical charging in phase changes of water as applied to an explanation of the formation of charges in thunderclouds." Leningrad Order of Lenin State U imeni A. A. Zhdanov. Leningrad, 1956. (Dissertation for the Degree of Candidate in Physicomathematical Sciences.)

SO: Knizhnaya Letopis', No. 26, 1956

Biological value of breast milk as reaction to its content  
of vitamins A and B<sub>1</sub>. B. B. Kruchina and N. A. Ray-  
antsev. (1st Med. Inst., Moscow). *Pediatrija* 1947,  
No. 5, 107-11.—In a no. of cases the vitamin A and B<sub>1</sub>  
levels were within the limits of literature data, although  
there was a tendency for lower A level, especially in cases  
of postnatal complications. However, even in these  
cases the carotene level was rather high. In cases of low  
levels of vitamin B<sub>1</sub> in the milk, the same hypovitaminosis  
appeared in the blood of their infants. The age of the  
mother or the season of the year were without influence  
on the hypovitaminoses, which were conditioned primarily  
by the food.

G. M. Koeblapoff



Bayandina, S.A.

Bayandina, S.A. "Some indications of immunity from contagious-septic illnesses in newborns and infants up to one month old," Trudy Vsesoyuz. s'yezda det. vrachey posvyashch. pamyati prof. Filatova, Moscow, 1948, p. 192-96

SO: U-3264, 10 April 1953, (Letopis 'Zhurnal 'nykh Statey, No. 3, 1949)

Krechmer, B. S.

Krechmer, B. S. and Sayandina, S.A. "The biological value of breast milk in respect to content of vitamins A and B<sub>1</sub>, " Trudy VI Vsesoyuz. s'yezda det. vrachey, posvyashch. pamyati prof. Filatova, Moscow, 1948, p. 390-95

SO: U-3264, 10 April 1953, (Letopis 'Zhurnal 'nykh Statей, No. 3, 1949)

BAYANINA, S. A.

"Contagious Septic Diseases in the New Born and in Children  
in the First Months of Life According to the Data of the Child-  
ren's Clinic." Sub 24 Sep 51, First Moscow Order of Lenin Medical  
Inst.

Dissertations presented for science and engineering degrees in  
Moscow during 1951.  
*Cand Medical Sci.*

SO: Sum. No. 480, 9 May 55

KRECHMER, B.B.; VAL'TER, E. M.; BAYANDINA, S.A.

Application of albomycin in pneumonia in infants. Sovet.  
med. no.10:10-13 Oct 1951. (CIML 21:1)

1. Of the Children's Clinic, First Moscow Order of Lenin  
Medical Institute (Head of Staff --- Prof. Yu. F. Dombrov-  
skaya, Corresponding Member of the Academy of Medical  
Sciences USSR).

KRECHMER, B. B., VAL'TER, YE. M., BAYANDINA, S. A., BONDARENKO, T. V., EVDOKIMOVA, YE. I.

ANTIBIOTICS

Albomycin therapy in pneumonia in infants. Novosti med. no. 23, 1951.

9. Monthly List of Russian Accessions, Library of Congress, December 1957, Uncl.  
2

MARETSKAYA, M.V.; RAYADINA, S.A.; GARELIK, O.S.; GEYSHINA, R.V.; BONDARENKO, T.V.;  
SHISHOVA, Ye.M.

Pneumonia in infants. Sovet. med. 17 no.7:30-32 July 1953. (CLML 25:1)

1. Of the Clinic for Children's Diseases (Director -- Prof. Yu. F. Dombrovskaya, Corresponding Member ANS USSR) of First Moscow Order of Lenin Medical Institute, Trunzenskiy Rayon Children's Hospital (Head Physician -- F. I. Pefer), and the Children's Division (Head -- R. V. Geyshina) of Polyclinic No. 56.

BAYANDINA, S.A., kand.med.nauk; SVETLOVA, A.K., kand.med.nauk; RITOVA,  
V.V., doktor med. nauk

Clinical features of influenza A<sub>2</sub> in infants [with summary in English]. Pediatriia 36 no.12:38-43 D '58. (MIRA 12:1)

1. Iz kliniki detskih bolezney i Moskovskogo meditsinskogo instituta imeni I.M. Sechenova (dir. - deystvitel'nyy chlen AMN SSSR prof. Yu. P. Dombrovskaya) i Instituta virusologii AMN SSSR (dir. - prof. P.N. Kostyakov).

(INFLUENZA, in inf. & child  
A<sub>2</sub>, clin. manifest. (Rus))

BAYANDINA, S.A., dots.; REZANOVA, M.N.

Restoration of motor skills in children with hypotrophy by means of exercise therapy in the hospital. Vop. okh. mat. i det. 3 no.1;76-81 Ja-F '59.

1. Iz Kafedry detskikh bolezney (zav. - deyastvitel'nyy chlen AMN SSSR prof. Yu. F. Dombrovskaya) I Moskovskogo ordena Lenina meditsinskogo instituta im. I.M. Sechenova.  
(EXERCISE THERAPY) (DEFICIENCY DISEASES)

BAYANDINA, S.A.; ISAYEVA, L.A.; TALALAYEVA, A.V.; MALYUGINA, Z.N.;  
KONCIPLEVA, A.V.

Clinical picture and outcome of acute disseminated lupus erythematosus.  
Pediatriia 37 no.1:76-83 Ja '59. (MIRA 12:1)

1. Iz kliniki detskih bolezney (dir. - deystvitel'nyy chlen AMN  
SSSR prof. Yu.F. Domborovskaya) i kafedry patologicheskoy anatomi<sup>i</sup>  
(zav. - chlen-korrespondent AMN SSSR prof. A.I. Strukov) I Moskov-  
skogo ordena Lenina meditsinskogo instituta.

(LUPUS ERYTHEMATOSUS, DISSEMINATED, in inf. & child  
acute, clin. picture & outcome (Rus))

BAYANDINA, S.A.; DANILINA, Z.A.

Candidomycoses in children. Pediatrica 38 no. 3:32-37 Mr '60.  
(MIRA 14:1)  
(MONILIASIS)

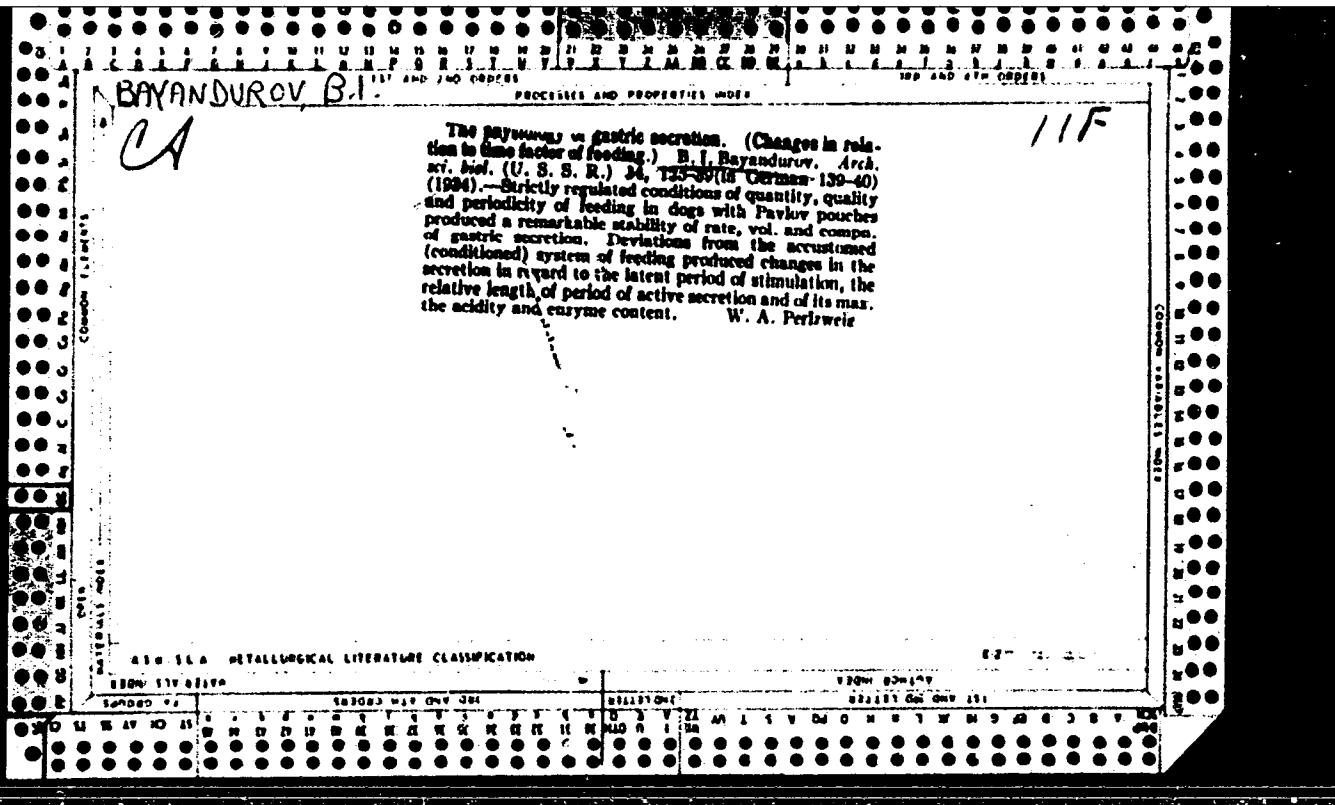
SVETLOVA, A.K., kand.med.nauk; BAYANDINA, S.A., kand.med.nauk;  
RITOVA, V.V., doktor med.nauk

Clinical virological characteristics of recurrent waves of  
influenza in infants. Pediatrilia 39 no.4:37-41 Ap '61.

(MIRA 14:4)

1. Iz kliniki detskikh bolezney I Moskovskogo meditsinskogo insti-  
tute imeni I.M. Sechenova (dir. - deystvit'nyy chlen AMN SSSR  
prof. Yu.F. Dombrovskaya) i Instituta virusologii AMN SSSR (dir. -  
prof. P.N. Kostyakov).

(INFLUENZA)



BAYANDUROV, B. I.

"Artificial Defensive Conditioned Reflexes in 'Ptentsovikh,'" Sbornik Trudov Kafedry normal. fiziologii (Tomskiy gos med n-t im. Molotova), Vol.6, pp. 93-110, 1948

"Conditioned Reflexes in Chickens," ibid. pp. 143-183 (with I. Alekseyev)

"Formation of Physiologically Active Matter in the Central Nervous System and Skin (Action of the Control of the Central Nervous System and Skin on the Transverse Striated Skeletal Muscles)," ibid., pp. 39-64

"Formation of Physiologically Active Matter in the Central Nervous System and Skin," ibid. pp. 23-38 (with F. G. Popov)

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BAYANDUROV, B. I.

"Problem of the Creation of Artificial Defensive Conditioned Reflexes in Birds (Comparative Characteristics of the Conditioned Reflex Actions in Domesticated and Non-Domesticated Pigeons)," Sbornik Trudov Kafedry normal. fiziologii (Tomskiy gos med in-t im. Molotova), Vol. 6, pp. 2 111-42, 1948

"Problem of the Effect of Isolated Receptors on the Organism of a Growing Animal (Effect of Isolating the Sight, Thought and Hearing Receptors Either Independently or Together on the Growth, Gas Exchange and Daily Life of Chicks)," ibid, pp. 7-21 (with O. A. Sirotkina)

"Problem of the Trophic Function of the Frontal Brain in Amphibia (Effect of the Isolation of One Hemisphere of the Frontal Brain in Frogs on the Tiring of the Transverse Striated Muscles in the Extremities)," ibid., pp. 65-82

BAYANDUROVA, N.A.

Case of odontoma of the jaw. Stomatologiia no.5:32-33 8-0 '54.  
(MIRA 7:11)

1. Iz kafedry khirurgicheskoy stomatologii (zav. prof. S.F.  
Kosykh) Tomskogo meditsinskogo instituta imeni V.M.Molotova (dir.  
prof. S.F.Khadkevich)  
(MAXILLA, neoplasms,  
odontoma, case report)  
(CYSTS, DENTIGEROUS,  
maxilla, odontoma, case report)

BAYANOV, A.P.; SEREBRENNIKOV, V.V.

Distribution of some rare earth elements between two fused  
metals. Zhur. neorg. khim. 9 no.7:1658-1661 Jl '64.  
(MIRA 17:9)

BAYANOV, A.P.; SEREBRENNIKOV, V.V.

Distribution of erbium in the fused systems Al - Cd, Al - Pb,  
and Al - Bi. Zhur.fiz.khim. 39 no.11:2816-2817 N '65.  
(MIRA 18:12)  
1. Tomskiy gosudarstvennyy universitet imeni V.V.Kuybysheva.

ACCESSION NR: AP4041586

S/0078/64/009/007/1658/1661

AUTHOR: Bayanov, A. P. ; Serebrennikov, V. V.

TITLE: Distribution of some rare earth elements in a binary metal melt

SOURCE: Zhurnal neorganicheskoy khimii, v. 9, no. 7, 1964, 1658-1661

TOPIC TAGS: rare earth extraction, molten rare earth distribution, rare earth element, binary metal melt, limited mutual solubility

ABSTRACT: The work was prompted by the necessity of separating nuclear fuel from radioisotopes and of studying the chemistry of molten media. In the present case, distribution of La, Ce, Pr, Nd, Sm and Y among Zn and Pb at 500C and of Ce in Al-Cd, Al-Pb, Al-Bi and Zn-Pb at 700C was investigated. These systems are characterized by limited mutual solubility in the molten state. Cerium in these tests was tagged with Ce<sup>144</sup>. Melting was done in an argon atmosphere. Distribution factors in Zn/Pb systems vary between 2.8·10<sup>3</sup> and 6·10<sup>3</sup> at 500C. For other metal systems, it has been determined that the distribution coefficients form the following series: Zn, Bi > Al > Pb >> Cd. It is supposed that "metallization" (a process analogical to solvation) of cerium in molten zinc is highest and in molten cadmium

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ACCESSION NR: AP4041586

the lowest. At 700C "metallization" of cerium in the above metals decreases according to the same series. Orig. art. has: 1 figure, no formulas, 2 tables.

ASSOCIATION: None

SUBMITTED: 15Nov63

DATE ACQ: 00

ENCL: 00

SUB CODE: 10

NO KEY Sov: 012

OTHER: 005

Cord 2/2

BAYANOV, A.F.; SEREBRENNIKOV, V.V.

Electromotive force study of the thermodynamic properties of cerium  
and erbium in some molten metals. Zhur. fiz. khim. 39 no.3:717-721  
Mr '65. (MIRA 18:7)

1. Tomskiy gosudarstvennyy universitet imeni Kuybysheva.

BAYANOV, Boris Pavlovich; SOLONTSOV, Z., red.; MUKHIN, Yu., tekhn.red.

[People's Korea on the road to socialism] Narodnaia Koreia na  
puti k sotsializmu. Moskva, Gos.izd-vo polit.lit-ry, 1959.  
142 p.

(MIRA 12:5)

(Korea, North)

TYRYSHKIN, I.V., gornyy inzh.; BAYANOV, G.I., gornyy inzh.

Dressing fluorite ores in heavy suspensions. Gor. zhur. no.2:  
75-76 F'62. (MIRA 17:2)

1. Sredneaziatskiy filial Gosudarstvennogo nauchno-issledovatel'skogo  
instituta tsvetnykh metallov, g. Almalyk (for Tyryshkin). 2. Plaviko-  
vo-shpatovyy kombinat, pos.Toy-Tyube (for Bayanov).

BAYANOV I.

PA 194T116

USSR/Radio - Crystals, Quartz

Aug 51

"Quartz Slabs," I. Bayanov, Krasnodar

"Radio" No 8, p 45

Recommends that the quartz slab be covered on both sides with a thin conducting layer and placed between 2 point electrodes instead of the flat electrodes of the ordinary crystal-holder. Crystal then oscillates along its length instead of along its width and frequency is correspondingly lower. Recommends this arrangement for use in the 2d i-f filters of receivers with double frequency conversion.

194T116

BAYANOV, I.

"A 6E5S tube in the second heterodyne."

So. Radio, Vol. 2, p. 28, 1952

USSR/Zooparasitology - Helminths.

G.

Abs Jour : Ref Zhur - Biol., No 15, 1958, 67525

Author : Bayanov, M., Toshchev, A.  
Inst : -

Title : Trichinellesis in a Sable.

Orig Pub : Okhota i okhotn. kh-vo, 1957, No 10, 23.

Abstract : No abstract.

Card 1/1

- 16 -

GORSHKOV, D.S., otv. red.; ASHMARINA, L.A., red.; UDILOV, V.I., glav.  
inzh., red.; BAYANOV, M.A., starshiy nauchnyy sotr., red.;  
KAPUSTIN, V.A., starshiy nauchnyy sotr., red.; STATKEVICH, I.I.,  
starshiy inzh.; OSIPOV, A.I., starshiy nauchnyy sotr., otv. red.

[Transactions of the Sverdlovsk Scientific Research Institute for  
the Lumbering Industry] Trudy Sverdlovskogo nauchno-issledovatel'-  
skogo instituta lesnoy promyshlennosti. [n.p.] TSentr. nauchno-  
issl. in-t mekhanizatsii i energetiki lesnoi promyshl., 1960. 56 p.

(MIRA 15:1)

1. Sverdlovsk. Sverdlovskiy nauchno-issledovatel'skiy institut les-  
noy promyshlennosti. 2. Direktor Sverdlovskogo nauchno-issledova-  
tel'skogo instituta lesnoy promyshlennosti (for Gorshkov).  
3. TSentral'nyy nauchno-issledovatel'skiy institut mekhanizatsii  
i energetiki lesnoy promyshlennosti (for Osipov).  
(Lumbering—Research)

BAYANOV, Mikhail Andreyevich

[Practices in the use of grab-type tractor loaders in  
the lumbering industry] byt ispol'zovaniia cheliust-  
nykh traktornykh pogruschikov v lesnoi promyshlennosti.  
Moskva, Lesnaia promyshlennost', 1965. 56 p.  
(MIRA 18:5)

AYUPOV, Khamit Valiyevich; DEMIDOV, Nikolay Vasil'yevich; BAYANOV, M.G.  
dots.

[Liver helminthiases of farm animals] Pechenochnye gel'-  
mintozy sel'skokhoziaistvennykh zhivotnykh. Ufa, Bash-  
kirske knizhnoe izd-vo, 1963. 49 p. (MIRA 18:7)

1. Bashkirskiy gosudarstvennyy universitet (for Bayanov).

TOSIACHEV, A.P., kand. veterinarnykh nauk [released]; BAYANOV, M.G., kand.  
veterinarnykh nauk

A case of trichinellosis in sables. Trudy VIGIS 10:55-56 1953.  
(MIRA 17:9)

PETROV, A.M.; BAYANOV, M.G.

Syphacia (*Sympatineria*) toschevi sp. n., a new nematode from  
the intestines of a squirrel. Zool. zhur. 41 no.7:1103-1106  
Jl '62. (MIRA 15:11)

1. U.S.S.R. Institute of Helminthology, Moscow and Agricultural  
Institute, Irkutsk.  
(Parasites—Squirrels) (Nematoda)

PETROV, A.M. [deceased]; BAYANOV, M.G.

Helminths of squirrels of Eastern Siberia. Nauch. dokl. vys. shkoly; biol. nauki no.2:18-21 '65. (MIRA 18:5)

1. Rekomendovana kafedroy zoologii i darvinizma Bashkirskogo gosudarstvennogo universiteta.

L 38675-66 EWT(m)/T/EWP(t)/ETI IJP(c) JD/JG  
ACC NR: AP6008274 SOURCE CODE: UR/0080/66/039/002/0447/0448

AUTHOR: Bayanov, A. P.; Gurskaya, S. F.; Serebrennikov, V. V. 38  
ORG: Tomsk State University im. V. V. Kuybyshev (Tomskiy gosudarstvennyy universitet)  
TITLE: Distribution of rare earth metals<sup>1</sup> and yttrium during crystallization<sup>10</sup> of zinc<sup>11</sup> from fused lead

SOURCE: Zhurnal prikladnoy khimii, v. 39, no. 2, 1966, 447-448

TOPIC TAGS: rare earth metal, yttrium, lanthanide series, metal crystallization

ABSTRACT: A study was made of the distribution of yttrium and certain rare earth metals in a system in which zinc is crystallizing from fused lead. The rare earth metals included the series from lanthanum to lutetium. Spectroscopic analysis was used in the determination of the distribution of the elements. The rare earth metals and yttrium were found in both lead and zinc phases. The lighter rare earths (e. g., cerium) were concentrated in the molten lead, while the heavier rare earths (e.g., lutetium) and yttrium were principally found in the zinc phase. Orig. art. has: 1

SUB CODE: 11,20/ SUBM DATE: 06Apr64/ ORIG REF: 003/ OTH REF: 001

UDC: 546.65+546.641

Card 1/1 vmb

BATULLIN, F.A.; BAYANOV, R.F. (Ufa)

Economic efficiency of capital investments in the clothing  
industry of Bashkiria. Shvein. prom. no,1:12-14 Ja.-F '65.  
(MIRA 18:4)

AKHMETOV, K.; BAYANOV, S.

Industrial automation and increasing labor productivity in the  
mining of nonferrous metals. Sets. trud. no.9:11-20 '58.

(Kazakhstan--Mineral industries)

(MIRA 11:10)

AKHMETOV, K.; BAYANOV, S.Z.; PONOMAREV, V.D.

Complete utilization of mineral raw materials is the most  
important means of increasing the production of nonferrous metals.  
Vest. AN Kazakh. SSR 14 no.11:10-18 N '58. (MIRA 11:12)  
(Mineral industries)

BAYANOV, S.Z.

Method for determining the commercial metal content of an ore.  
Vest. AN Kasakh. SSR 17 no.2:3-10 p '61. (MIRA 14:2)  
(Ores—Sampling and estimation)

*B/44/IV-6, V. I.*

AUTHORS: Andrushevich, Yu.M., and Bayanov, V.I. 604  
TITLE: Taps for Long Acme Threads (Metchiki Dlya Dlinnykh Trapetsoidal'nykh Rez'b).  
PERIODICAL: "Stanki i Instrument" (Machine Tools and Cutting Tools, No.3, 1957, pp.39-40 (U.S.S.R.).  
ABSTRACT: The research work carried out by the Kuibyshev Aviation Institute has shown that the nature of the auxiliary cutting edge angle in plan-form reduces the cutting force and leads to lower wear of the cutting tool. These results obtained on cutting off tools has been used to improve the geometry of tap design. The dimensions of four 31 mm diameter acme taps are shown, the last being the finishing tap. The metal removed by the first tap constitutes 44%, by the second 27%, by the third 17% and by the fourth 12% of the total.

Card 1/1

BAYANOVA, M.G.

"Material Connected with Diphtheria Epidemic in the Towns of the  
Frunze and Osh. Trudy Inst. Epid. i Mikrob. Ministerstva Zavarov  
Kirgiz., SSR, Frunze, Vol. 1, 1951 pp24-25

BAYANOVA, M.G.; FEDOTOV, P.V. and MANKINA, I.P.

"Types of Diphtheria Cultures in Material From the Town of Frunze  
and Their Connection to the Clinical Course of the Disease." Trudy Instituta  
Epidemiologii i Mikrobiologii Ministerstva Zdravookhraneniya Kirgizskoy  
SSR, Frunze, vol. 1, 1951 pp 28-29

BAYANOV, M. G.

BAYANOV, M. G.: "Experiment in curing chickens of ascaridosis and heterakidosis under the conditions of the kolkhozes of Moscow Oblast." Moscow Veterinary Academy, Min Higher Education USSR. Moscow, 1956. (Dissertation for the Degree of Candidate in Veterinary Sciences)

Source: Knizhnaya letopis' No. 28 1956 Moscow

BAYANOVA, M. G.; and ZEVIN, G. Ya.

"Material Connected With the Diphtheria Epidemic in the Towns of Frunze and Osh," Trudy Instituta Epidemiologii i Mikrobiologii Ministerstva Zdravookhraneniya Kirgizskoy SSR, Frunze, Vol 1, 1951, pp 24, 25.

BAYANOVA, M. G.; FEDOTOV, P. V. MANKINA, I. P.

"Types of Diphtheria Cultures in Material From the Town of Frunze and Their Connection to the Clinical Course of the Disease," Trudy Instituta Epidemiologii i Mikrobiologii Ministerstva Zdravookhraneniya Kirgizskoy SSR, Frunze, Vol 1, 1951,  
pp 28, 29.

BAYANSKIY, T.E.

Economic efficiency in the production and use of Karadag natural  
gas. Izv. vys. ucheb. zav.; neft' i gaz no.6:125-130 '58.

(MIRA 11:9)

1. Azerbaydzhanskiy industrial'nyy institut im. M. Azisbek va.  
(Apsheron Peninsula--Gas, Natural)

BAYANSKIY, T.E.

Ways of satisfying the demand for gas in the oil field areas of Azerbaijan. Izv. vys. ucheb. zav.; neft' i gaz 3 no.7:121-124  
'60. (MIRA 15:5)

1. Azerbaydzhanskiy institut nefti i khimii imeni  
M. Azizbekova.  
(Azerbaijan--Gas, Natural)

BAYANSKIY, T.E.

"Ural-Emba oil-bearing region" by T.Sh.Shaukenvaev. Reviewed by  
T.E.Bainaskii. Izv. vys. ucheb. zav.; neft' i gaz 3 no.11:60,106  
'60. (MIRA 14:1)  
(Emba region--Oil fields--Production methods)

BAYANSKIY, T.E.

All-Union Interuniversity Conference of the Department of Industrial  
Economics and Production Organization of the Petroleum Institutes  
and Faculties. Izv.vys.ucheb.zav.; neft' i gaz 4 no.7:74, 102  
'61. (MIRA 14:10)

BAYANSKIY, T.E.

Indices for the preliminary economic evaluation of oil and gas fields.  
Izv. vys. ucheb. zav.; neft' i gaz 8 no.6:111-116 '65. (MIRA 18;?)  
1. Alma-Atinskiy institut narodnogo khozyaystva.

BAYAR, G.A.

Detection of botulin in food preserves by Boyden's indirect hemagglutination reaction. Zhur. mikrobiol., epid. i immun. 40 no.11:142 N '63.

1. Iz Voyenno-meditsinskoy ordena Lenina akademii imeni Kirova.  
(MIRA 17:12)

KONIKOVA, R.YE. BYTA, G.V.

Methodology of the conservation of sensitized erythrocytes for  
the indirect hemagglutination reaction. Lab. debo no. 2:73-74  
'65. (MIRA 18:2)

1. Voyenno-meditsinskaya ordens Len'ina akademiya im. S.M. kirova,  
Leningrad.

L 63854-65

ACCESSION NR: AP5020092

UR/0016/65/000/008/0050/0053  
516.981.435-078.73

AUTHOR: Bayar, G. A.; Konikova, R. Ye.

TITLE: Droplet method of using the indirect hemagglutination reaction with tularemia antigen

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 8, 1965, 50-53

TOPIC TAGS: hemagglutination reaction, tularemia, antigen, immunology, erythrocyte

ABSTRACT: The authors tested their modification of Boyden's indirect agglutination reaction with tannin-treated erythrocytes to detect the causative agent of tularemia. It involves adding to a drop of tularemia antigen (from each dilution) a specified amount of a 3% suspension of sensitized erythrocytes. The mixture is mixed with a glass rod and left at room temperature for 15 minutes. The reaction is assessed from the degree of erythrocyte agglutination. The method can be used to detect from 50,000 to 400,000 live tularemia microbes in 1 ml. The reaction is highly specific and provides a means of differentiating tularemia from brucellosis and other bacteria. The technique is simple to apply and the tularemia antigen can be

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L 63654-65

ACCESSION NR: AP5020092

detected in 30 minutes. Orig. art. has: 1 table.

ASSOCIATION: Voyenno-meditsinskaya ordena Lenina akademiya im. S. M. Kirova (Order of Lenin Academy of Military Medicine)

SUBMITTED: 28Mar64

ENCL: 00

SUB CODE: LS

NO REF SOV: 010

OTHER: 001

Card 2/2

BAYAR, G.

PLESSHEV, B.; SHERENTSIS, A. pri uchastii: BAYAR, G., BUKHAROV, A.;  
KOREN'KOV, V.; LEVANTIN, N.; MAKOTINSKIY, M.; ROZAHOV, N.; KHAZANOV, D.  
FRIEDBERG, G.V., red., izd.-va; TIKER, A.M., tekhn.red.

[Problems of unification and a unified catalog of construction  
elements for apartment houses and public buildings; a report]  
Voprosy unifikatsii i edinyi katalog stroitel'nykh izdelii dlia  
zhilishchnogo i kul'turno-bytovogo stroitel'stva; soobshchenie...  
[Moskva, Gos. izd-vo lit-ry po stroit. i arkhit., 1955] 24 p.  
[Bound with Voronkov, A. Industrializatsiya otdelochnykh rabot.  
Moskva, 1955]  
(Building) (Standards, Engineering)  
(MIRA 11:6)

BAYAR, O.G., kand. arkitektor, redaktor; GIMPEL'SON, A.Z., redaktor;  
TYAPKIN, B.G., tekhnicheskiy redaktor.

[Fitting and finishing apartment houses] Oborudovanie i otdelka  
pomeishchenii mnogostashnykh shilykh domov. Moskva, Gos. izd-vo  
lit-ry po stroitel'stvu i arkitekture. No.1, 1954. 47 p.  
[Microfilm]

(MIRA 8:2)

1. Akademiya arkitektury SSSR, Moscow. Nauchno-issledovatel'skiy  
institut arkitektury shilishcha.  
(Apartment houses) (Building fittings)

BAYAR, O. G.

TROSHICHEV, V. M. - Khudozhnik i, GROMOV, V. L. - Kand. Tekh. Nauk, POKHELES, E. L. - Arkh., PSHENICHNIKOVA, O. S. - Arkh., BUYANOV, Yu. P. - Inzh., BYKOVSKIY, O. L. - Arkh., BAYAR, O. G. (Rukovoditel'temy) - Kand. Arkhitektury, MAKATINSKIY, M. P. - Kand. Arkhitektury, RABINOVICH, I. L. - Arkh., CHERIKOVER, L. Z. - Arkh., ANDREYEVSKIY, V. G. - Kand Tekhn. Nauk

Nauchnoissledovatel'skiy institut stroitel'noy tekhniki Akademii arkhitektury SSSR

Predlozheniya po oborudovaniyu i otdelke kvarтир mnogoetazhnykh zhilykh domov v moskve (Al'bom)

Page 67

SO: Collection of Annotations of  
Scientific Research Work on  
Construction, completed in 1950.  
Moscow, 1951

GEL'BERG, L.A.; FEDOROV, G.I.; ZAL'TSMAN, A.M.; KAPUSTYAN, Ye.D.;  
BAYAR, O.G.; DELLE, V.I.; SHERENTSIS, A.A.; MAKLAKOVA, T.G.;  
KOFED, Yu.B.; KOLOTILKIN, B.M.; GLADKOV, B.V.; GAVALOV,  
O.V., red.; GOLOVKINA, A.A., tekhn. red.

[Housing construction in the U.S.S.R.; present state and  
prospects for development] Zhilishchnoe stroitel'stvo v SSSR;  
sostoianie i perspektivy razvitiia. Moskva, Gosstroizdat,  
1962. 202 p. (MIRA 15:11)  
(Apartment houses) (Construction industry)

ACCESSION NR: AP4040707

S/0203/64/004/003/0458/0463

AUTHOR: Babarykin, V. K.; Bayarevich, V.V.; Stozhkov, Yu. I.; Charakhoh'yan, T.N.

TITLE: Latitudinal measurements of cosmic-ray intensity in the stratosphere

SOURCE: Geomagnetizm-aeronomiya, v. 4, no. 3, 1964, 458-463

TOPIC TAGS: cosmic ray intensity, stratosphere, equatorial belt, sounding flight, geomagnetic latitude, extrapolation, communication coefficient

ABSTRACT: The intensity of cosmic rays in the stratosphere was measured on board the steamship "Estoniya," which sailed from Lenin-grad to the shores of Antarctica. At the same time, observations with identical instruments were carried out at Murmansk, Moscow, and Alma Ata. Data obtained at these places and in the equatorial belt in December 1962 are represented graphically. The curves are similar. The sounding flights reached heights of 27—30 km, from which the intensity of cosmic rays could be determined at low pressures and at various geomagnetic latitudes. Attempts to determine the intensity

Cont 1/2

ACCESSION NR: AP4040707

of cosmic rays at the upper boundary of the atmosphere by extrapolation yielded exaggerated results. Data on the latitudinal distribution of cosmic-ray intensity are used for computing the coupling coefficients. Numerical values of the coupling coefficients for all stations are given in a table. Orig. art. has: 4 figures, 2 tables, and 6 formulas.

ASSOCIATION: Vosmaya Sovetskaya Antarkticheskaya ekspeditsiya AN SSSR (Eighth Soviet Antarctic Expedition, AN SSSR); Fizicheskiy institut im. P. N. Lebedeva AN SSSR (Institute of Physics, AN SSSR); Moskovskiy gosudarstvennyy universitet, Institut yadernoy fiziki (Moscow State University, Institute of Nuclear Physics)

SUBMITTED: 14Oct63

ATD PRESS: 3041

ENCL: 00

SUB CODE: AA

NO REF Sov: 008

OTHER: 002

Card 2/2

L 3646-66 EWT(1)/FCC/EWA(h) GW

ACCESSION NR: AP5026222

UR/0048/65/029/010/1805/1806

AUTHOR: Vernov, S. N.; Charakhch'yan, A. N.; Babarykin, V. K.; Bayarevich, V. V.;  
Stozhkov, Yu. I.; Charakhch'yan, T. N.

TITLE: Measurements of the intensity of cosmic rays in the stratosphere above B  
Antarctica

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 10, 1965, 1805-1806

TOPIC TAGS: cosmic ray, primary cosmic ray, outer radiation belt, artificial  
radioactivity, critical energy, proton 12

ABSTRACT: Simultaneous measurements of the intensity of cosmic rays in both hemispheres are of great importance for investigating low-energy primary cosmic radiation, temperature effect, disturbances in the earth's outer radiation belt, and artificial radioactivity in the stratosphere. Although the critical energy in Murmansk is about 100 Mev and in Mirnyy about 10 Mev, measurements are carried out in atmospheric layers above both places with a pressure of  $10 \text{ g/cm}^2$ , which can be penetrated by protons with energies above 100 Mev. Data obtained simultaneously in Murmansk and Mirnyy are obtained at different seasons, and they arrive from different directions in the atmosphere. Sounding takes place in all stations at a given time. Four times a week cosmic rays are measured with a

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35

32

L 3646-66  
ACCESSION NR.: AP5026222

3

single counter and two times with a special telescope. Results of measurements are represented graphically. The difference between Murmansk and Mirnyy varies, depending upon the season of the year. The difference is small when the pressure is between 20 and 200 g/cm<sup>2</sup>. The difference increases at other pressures. Orig. art. has: 2 figures. [EG]

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSSR (Institute of Physics, Academy of Sciences SSSR); Nauchno-issledovatel'skiy institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta im. M. V. Lomonosova. (Scientific Research Institute of Nuclear Physics, Moscow State University); VIII Sovetskaya antarkticheskaya ekspeditsiya (VIII Soviet Antarctic Expedition).

SUBMITTED: 00

ENCL: 00

SUB CODE: AAES

NO REF SOV: 001

OTHER: 000

ATD PRESS: 4116

Reh  
Card 2/2

BABYKIN, V.K.; BAYAREVICH, V.V.; STOZHKOY, Yu.I.; CHARAKCHYAN, T.N.

Latitudinal measurements of cosmic ray intensity and coupling  
factors in the stratosphere. Izv. Ak. SSSR Ser. fiz. 28 no.12:  
2026-2028 D '64  
(MIRA 18:2)

1. Vos'maya sovetskaya antarkticheskaya ekspeditsiya AN SSSR,  
Fizicheskiy institut imeni Lebedeva AN SSSR i Nauchno-issledo-  
vatel'skiy institut yadernoy fiziki Moskovskogo gosudarstvennogo  
universiteta imeni Lomonosova.

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000204020007-6

BAYAREVICH, V. Ya.

BARKAN, Ya. D., inzhener.; BAYAREVICH, V. Ya., inzhener.

Against the use of separating protective systems in electric power  
plants. Elek. sta 27 no.10:31-32 O '56. (MIRA 9:12)  
(Electric power plants) (Electric switchgear)

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000204020007-6"

BAVARS, V.

(3)

Group composition of sapropels from some marshlands of the Latvian SSR. V. Bavaras and N. Brakhs (Kim. Inst. Zinatniskie Raksti, Riga, 1956, 1:155-162).—Compared with those from other regions of the USSR, the sapropels from Latvia contain the relatively high proportion of ~88% of org. matter in the dry substance, containing C 51-59%, H 6.7-7.2%, N 4.7-5.4%, S 0.6-1.4%, O 28-35%, C/H 6.9-8.4%. 15-34% of this substance could be extracted with 1% NaOH; carbohydrates (hemicellulose, cellulose, water-sol. substances) make up 20-32%, unsaponifiable residue 10-22.6%, and bitumen 7.5-14%. In all samples investigated the total of bitumens + unsaponifiables exceeds the total of humic acids, which thus contradicts the widely held opinion about the importance of these acids in the make-up of sapropels.

H. C. MURRAY.

Brakha, V.

Effect of temperature on the pyrolytic decomposition of sapropels.  
N. Brakha, V. Bayar, and S. Biernietes (Km. "Inz. Zinatiskis Rabst., Riga, 1960, I, 163-170).—When sapropels from Latvian marshlands are heated in an Al retort, only dry distillation gases and H<sub>2</sub>O come off up to 200°, tar commences to distill at 250° (and somewhat below for samples specially rich in carbohydrates), the yield rapidly rises with temp., until at 450° ~85% of the primary tar (~31% of the total organic matter) is evolved. Nearly 75% of the decomposition H<sub>2</sub>O comes off below 250°, and 90-95% at 350°.

R. C. MURRAY.

DRAVNIKS

C. A. V-48  
Jan 13, 1954.  
Ends, a =  
Calibration  
Ends

Properties of coke, coke gas, and tar waters prepared by partial coking of Latvian sapropels. N. Braks and V. Bailes (Chem. Ind., Acad. Sci. Latv. S.S.R.). *Latvijas Zinātņu Akad. Viestis* 1950, No. 2 (Whole No. 31), 97-106 (Russian summary, 100); cf. preceding abstract. Sapropels from various locations were coked at 600° and the volatile products, as well as the coke, were investigated in detail. Thirty-37% of the potential caloric heat was retained in the coke; the coke contained 24-30% ash. The gas contained in %: CO<sub>2</sub> 42-57, H<sub>2</sub> 9-12, CO 4-11, CH<sub>4</sub> 0-10, olefins 5. The tar water contained phenols 2.4-2.8, NH<sub>3</sub> 2.4-2.6, acetone 1-1.3, low-mol. acids 1.5-2.1, volatile pyridine bases 1.1-1.4. A. Dravnieks

6-4-54  
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"APPROVED FOR RELEASE: 06/06/2000

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APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000204020007-6"

BAJARS, V.

BAKSS, N.; BAJARS, V.

Properties of coke, coke gas, and tar waters prepared by partial coking  
of Latvian sapropels. Latvijas PSR Zinatnu Vestis '50, No.2, 97-105.  
(CA 48 no.1:346 '54) (MLRA 3:7)

1. Chem. Inst., Acad. Sci. Latv. S.S.R.

LAPUSHONOK, Yu.(Riga); BAYARS, V.[Bajars, V.](Riga); DALBIN'SH, Ya.  
[Dalbins, J.](Riga)

High-speed semicoking of peat in the experiment installation  
using gas heat transfer medium. In Russian. Vestis Latv ak no.3:  
127-134 '60. (EKAJ 10:7)

1. Akademiya nauk Latviyskoy SSR, Institut khimi.  
(Peat) (Coke) (Gases)

KARLSON, K.P. [Karlsons, K.], red.; BAYARS, V. [Bajars, J.], red.  
STONANS, Ja., red.; DALBIN', M.Ya. [Dalbins, M.], red.;  
PLATNIYEKS, R.F. [Platnieks, R.], red.; LAPUSHONOK,  
Yu.K., red.; TEYTEL'BAUM, A., red.; BITAR, A., tekhn.  
red.

[Transactions of the Conference on the New Methods of the  
Efficient Use of Local Fuels held in Riga, September 2 to  
5, 1958] Trudy soveshchaniia po novym metodam ratsional'-  
nogo ispol'szovaniia mestnykh topliv, Riga, 1958.

(MIRA 16:5)

1. Soveshchaniye po novym metodam ratsional'nogo ispol'szo-  
vaniya mestnykh topliv, Riga, 1958. 2. Institut khimii Akademii  
nauk Latviyskoy SSR (for Bayars, Dalbin').

(Fuel--Congresses)

BALASHTIK, Yaroslav [Balastik, Jaroslav]; BROMBERG, I.S., kand.sel'sko-khoz.nauk [translator]; BLINOV, L.F., kand.sel'skohoz.nauk, red.; BAYARSKAYA, L.S., red.; ZUBRILINA, Z.P., tekhn.red.

[Preservation of fruits, vegetables, and meat at home] Konservirovaniye plodov ovoshchey i miasa v domashnikh usloviakh. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1959. 284 p. (MIRA 13:5)  
(Food--Preservation)

GUTSALYUK, V.G.; RAFIKOV, S.R.; BAYARSTANOVA, Zh.Zh.

Production of plastics on the basis of oxidized bituminous  
petroleum residues. Izv.AN Kazakh.SSR.Ser.khim. no.2:72-  
78 '59. (MIRA 12:8)

(Plastics) (Petroleum waste)

BAYARSTANOVA, Zh.Zh.; BILOKUR, V.F.; GUTSALYUK, V.G.; SALTYBAYEV, D.K.;  
SHEVTSOV, D.A.; EL'KES, A.M.

Industrial preparation of bitumens with a high softening point.  
Khim.i tekhn. topl.i masel 6 no.2:33-35 F '61. (MIRA 14:1)

1. Institut khimicheskikh nauk Kazakhskoy SSR, Alma-Ata, i Orskiy  
neftepererabatyvayushchiy zavod.  
(Bituminous materials)

L 23596-65 E/T(m)/EPF(c)/T Pr-4 WE  
ACCESSION NR: AP4049879

S/0360/64/000/001/0075/0079

1/2  
B

AUTHOR: Bayarstanova, Zh. Zh.; Gutsalyuk, V.G.; Yerdenova, Sh. Ye.; D'yachkov, G.A.

TITLE: Composition of the hydrocarbon components of thermocracking residues

SOURCE: AN KazSSR. Izvestiya. Seriya khimicheskikh nauk, no. 1, 1964, 75-79

TOPIC TAGS: thermocracking residue, hydrocarbon thermocracking residue, Emba petroleum, petroleum refining, column chromatography

ABSTRACT: Considering that more than 30% of the crude oil subjected to thermal cracking forms a resin-rich residue, it was important to know the composition of this residue for its eventual utilization. Taking the cracking residues of the Orsk refinery which operates mostly on Emba crude, the authors first eliminated the solid paraffins (by chilling a dilute solution in benzene and acetone), amounting to 6.9%. The remaining residue was analyzed by chromatography (silicagel ASK, petroleum ether on a column 17 mm in diameter and 900 mm long). The separation gave the following results: paraffino-naphthenes 42.5%, medium aromatics 17.3%, heavy aromatics 17.9%, resins 21%. The molecules of the paraffino-naphthene fraction consist of one aromatic and one naphthene ring with aliphatic

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L 23596-65

ACCESSION NR: AP4049879

side chains. The oxygen, sulfur and nitrogen content increases from the paraffino-naphthalenes to the resins, while the H:C ratio decreases from 1.9 to 0.9 in the same direction. Orig. art. has: 1 figure and 2 tables.

ASSOCIATION: None

SUBMITTED BY: 001

ENCL: 00

SUB CODE: FP, GO

NO REF SOV: 011

OTHER: 001

Card 2/2

USSR / General Problems of Pathology. Tumors. Human U  
Neoplasms.

Abs Jour: Ref Zhur-Biol., No 11, 1958, 51782.

Author : Bayasanyev, B. I.  
Inst : Azerbaydzhan Scientific Research.  
Title : Capillary Permeability in Leukosis.

Orig Pub: Sb. nauchn. Tr. Azerb. n-i. in-ta, perlivaniya Krovi, 1957, vyp 3, 62-67.

Abstract: The permeability of the capillary wall was studied dynamically by the method of Landis. (Erythrocyte count in 1 mm<sup>3</sup>, serum protein and hematocrit determination in the free and turniquet bound hand). In 12 patients with chronic myelosis, progressive, but slight, increase of capillary permeability was demonstrated regardless

Card 1/2

USSR / General Problems of Pathology. Tumors. Human U  
Neoplasms.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204020007-6"

Abs Jour: Ref Zhur-Biol., No 11, 1958, 51782.

Abstract: of the applied treatment; in 6 patients with lymphadenosis, capillary permeability decreased somewhat with improvement in their condition; in acute leukosis (2), definite increase of permeability of the vascular wall was noted. --  
R. P. Zolotnitskaya.

Card 2/2

BAYASANOV, D. B., Cand ~~Techn~~ Sci -- (diss) "Automatization  
and dispatching of ~~city~~ <sup>urban</sup> gas systems." L'vov, 1957. 19 pp  
with illus. (Min of Higher Education USSR, L'vov Polytechnic  
Inst), 100 copies (KL, 1-58, 117)

- 40 -

BAYASANOV, D.B.

Automatic control for municipal gasholders [with summaries in Russian and English]. Avtomatyka no.2:23-34 '57. (MLRA 10:8)

1. Institut vikoristaniya gasu Akademii nauk URSR.  
(Gasholders) (Automatic control)

BAYASANOV, D.B.

Transition processes in city gas-supply systems [with summaries in Russian and English]. Dop. AN URSR no. 3:283-289 '57. (MLRA 10:9)

1. Institut vikoristannya gazu v kommunal'nomu gospodarstvi ta prosilovosti Akademii nauk URSR. Predstavлено akademikom Akademii nauk USSR.

(Gas distribution)

BAYASANOV, D.B.

Remote control of pressure in city gas systems. Gaz.prom. no.6:20-23  
Je '57. (MLRA 10:7)

(Remote control) (Gas distribution)

BAYASANOV, D.

Elements of the dynamics of apparatus for remote control in urban  
gas-supply systems. Izv. AN Azerb.SSR no.6:23-39 Je '57. (MIRA 10:10)  
(Gas distribution) (Remote control)

BAYASANOV, D.B.

New devices for remote control in city gas systems. Visnyk AN URSR  
28 no.2:57-63 P '57. (MLRA 10:4)  
(Remote control) (Gas distribution)

~~BATASANOV D. V.~~

Statics and dynamics of the servo system of the RTD telemetric  
transmitter within the zones of "variation by the tens." Izv. AN  
Azerb. SSR no. 5:27-34 My '57. (MLRA 10:8)  
(Telemeter) (Servomechanisms)

BAYASANOV, D.B.

Technical specifications for a remote and central control system for  
a municipal gas system and an analysis of them. Visnyk AN URSR 2  
no.7:51-55 Je '58. (MIRA 11:9)  
(Gas distribution) (Remote control)

BAYASANOV, D. B.

Dynamics of parallel operation of double-impulse gas pressure  
regulators. Gaz. prom. no.3:35-39 Mr '58. (MIRA 11:3)  
(Pressure regulators)

BAYASANOV, D.B.

Graphic analysis in analyzing the kinematic diagram of a remote-control gas pressure and consumption pick-up. Izv. AN Azerb. SSR.  
Ser.fiz.-mat.i tekhn.nauk no.1:57-65 '60. (MIREA 13:11)  
(Remote control)

BAYASANOV, Dilavar Bilalovich; ABASOW, M., red.; RUTSHTEYN, S., red.;  
GONCHAROV, I., red. izd-va; SALIMOVA, V., tekhn. red.

[Automatic and remote control devices in municipal gas supply  
systems] Avtomaticheskie i telemekhanicheskie ustroistva v  
gorodskikh sistemakh gazosнabzheniya; uchebnoe posobie dlia  
tekhnicheskikh vuzov. Baku, Azerbaidzhanskoe gos. izd-vo  
uchebno-pedagog. lit-ry, 1961. 300 p. (MIRA 15:10)

(Gas distribution) (Automatic control)  
(Remote control)

BAYASANOV, D.B.

Efficient gas supply by a single automated pipeline. Izv. vys.  
ucheb. zav.; neft' i gaz 6 no.2:81-85 '63. (MIRA 16:5)

1. Azerbaydzhanskiy politekhnicheskiy institut.  
(Gas distribution)

BAYASANOV, D.B. (Baku); KHASKEL'BERG, L.G. (Baku)

Remote control of gas pressure at the output of the main compressor  
station of a gas pipeline. Avtomatyka 8 no.2:53-63 '63.

(MIRA 16:5)

(Gas, Natural—Pipelines) (Compressors) (Remote control)

KERMOV, Z.A.; BAYASANOV, D.B.

Investigating the dynamics of the outlets to the gas-regulator stations in long-distance gas transportation systems. Izv. vys. ucheb. zav.; neft' i gaz 7 no.12:93-97 '64 (MIRA 18:2)

I. Azerbaydzhanskiy politekhnicheskly Institut.

BAYASANOV, Dzhafar Mihalovich; OLEYNIKOV, V.A., kand. tekhn. nauk  
dosc., retsenzent; KOTCHENKO, F.F., nauchn. red.;  
REYKHERT, L.A., ved. red.

[Automatic control of gas pipelines] Avtomaticheskoe up-  
ravlenie magistral'nymi gazoprovodami. Leningrad, Nedra,  
1964. 434 p. (MIK. 17:10)

BAYASANOV, D.P.

Elements in the dynamics of the operation of a gas pipeline.  
Gas. delo no.9:23-27 '63. (MIRA 17:12)

1. Azerbaydzhanskiy politekhnicheskiy institut.

BAYASANOV, D.B. (Baku)

Method for obtaining an approximate characteristics equation  
of an automated gas main. Avtomatyka 8 no.6:65-77 '63.  
(MIRA 17:8)

BAYASANOV, D.B.; EMIRSHAKH, Ye.<sup>A</sup>.

Remote-control corrector to pressure regulators for gas-regulation  
points. Gas. delo no.7:24-27 '64. (MIRA 17:8)

1. Azerbaydzhanskiy politekhnicheskiy institut.

BAYASANOV, D.B.; AKHVERDIYEV, G.I.

Remote control gauge for measuring the difference in the "pipe-ground" potentials in case of cathodic protection of underground structures. Gaz. delo no.9:17-19 '64.

(MIRA 17:11)

1. Azerbaydzhanskiy politekhnicheskiy institut.

BAYASANOV, D.B.

Work of the Azerbaijan Polytechnical Institute on automation and  
cybernetics. Gaz. delo no.5:42-43 '65. (MIRA 18:6)

1. Azerbaydzhanskiy politekhnicheskiy institut, Baku.

21(7)

SOV/56-36-3-6/71

AUTHORS: Bayatyan, G. L., Gramenitskiy, I. M., Nomofilov, A. A.,  
Podgoretskiy, M. I., Skzhipchak, E. S.

TITLE: The Production of  $\pi^0$ -Mesons in the Interaction Between Protons  
With Energies of  $\sim 9$  Bev and Photoemulsion Nuclei (Generatsiya  
 $\pi^0$ -mezonov pri vzaimodeystviyah protonov s energiyey  $\sim 9$  BeV  
s yadrami fotoemul'sii)

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959,  
Vol 36, Nr 3, pp 690-693 (USSR)

ABSTRACT: For the purpose of solving the problem of the interaction of  
high-energy particles, it is of interest to know the energy  
portion k carried off by secondary  $\pi$ -mesons. Grigorov and  
Murzin (Ref 1) determined k as amounting to  $\sim 30\%$  for inter-  
action between cosmic particles ( $E \sim 10^{16}$  ev) and light nuclei.  
The present paper deals with investigations of the average  
energy of  $\pi^0$ -mesons produced by  $\sim 9$  Bev protons on photo-  
emulsion nuclei. NIKFI emulsions of the type R ( $450\mu$ ) were  
used. Proton irradiation was carried out on the synchrophas-  
tron of the OIYAI. Investigation was indirect; the electron-  
positron pairs were investigated which had been produced by  
the  $\gamma$ -quanta originating from  $\pi^0$ -decay. For  $R = n_{\pi^0}/n_s$  an

Card 1/2

SOV/56-36-3-6/71

The Production of  $\pi^0$ -Mesons in the Interaction Between Protons With Energies of  $\sim 9$  Bev and Photoemulsion Nuclei

estimate is  $R \sim 0.5$ . Figure 1 shows the measured distribution of the angles of emission of electron-positron pairs, of the fast charged particles of stars, found by prolonging the traces of primary protons and of stars, found by following the fast secondary particles. For  $n_s'$  and  $N_h$   $4.3 \pm 0.2$  and  $7.8 \pm 0.7$  is obtained, which agrees well with the values of reference 4. The mean energy of  $\pi^0$ -mesons is determined from  $f = \bar{E}_{\pi^0}/\bar{E}_\gamma$ , for  $f = 1.8$   $\bar{E}_{\pi^0} = 750 \pm 180$  Mev is obtained. The mean energy generated by a  $\pi$ -meson, according to  $\bar{E}_\pi = 3/2 \cdot (n_s - \alpha) \bar{E}_{\pi^0}$ , becomes  $\bar{E}_\pi = 3.0 \pm 0.7$ ; a more exact estimate gives  $2.5 \pm 0.6$ . The energy portion  $k$  carried off by  $\pi$ -mesons therefore amounts to  $0.33 \pm 0.08 \leq k \leq 0.27 \pm 0.07$ . In conclusion, the authors thank M. Ya. Danysh for discussing results, and V. P. Solomakhina for assisting in the work of evaluation. There are 2 figures and 8 references, 5 of which are Soviet.

ASSOCIATION: Ob'yedinennyy institut yadernykh issledovaniy  
(Joint Institute for Nuclear Research)

SUBMITTED: July 28, 1958  
Card 2/2